



RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:28

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

```

3 <110> APPLICANT: Thomas Buhler; Reto Andreas Gadiant; Reinhard Korn; Rao Movva
5 <120> TITLE OF INVENTION: pCAR and its uses
7 <130> FILE REFERENCE: 4-31499A
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/899,634B
C--> 9 <141> CURRENT FILING DATE: 2002-06-17
9 <160> NUMBER OF SEQ ID NOS: 12
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 4286
15 <212> TYPE: DNA
C--> 16 <213> ORGANISM: Artificial/Unknown
18 <220> FEATURE:
19 <221> NAME/KEY: CDS
20 <222> LOCATION: (3229)..(4014)
21 <223> OTHER INFORMATION: delta pCAR gene
24 <400> SEQUENCE: 1
25 cggtgcgggc ctcttgcgta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat      60
27 taagttaggt aacgccaggg ttttcccagt cagcaggttg taaaacgacg gccagtgcga      120
29 agttgggatc tttgcattgg cccacggctc tcaggatggg gatgctcccc ttcagcaccc      180
31 ggttcccctt ggaaactgat ggtcctggct ctgtggcatg gcagtggcac tgtgaggagc      240
33 ccctaccagc agcacacagt gggtttggca ctgccacgct ccgcatgccg cgctctgatc      300
35 caaccccata atcaagggaa cccgaattgc cccatcattg cccccaccac cccatcctg      360
37 ccggggccctc acaccccaag ctgccttggt gtgacattcc ccagcccaaa cccacggcct      420
39 catggctacc gcggggcatt tccattgcc gccccattat cagctctgca cacctccgcg      480
41 tgtacccatg cctcgtggct gcccttcttt gacgtataat cttctaatta ataccgggcc      540
43 ttgtcaaagt ggagcaciaa cgttaattaa ttcccagca ggcaggtaat taacagtgtg      600
45 actccctttt tgctgcgagt ggggctgata cagagagatg tggcactatg gagcccacgg      660
47 ggtcctggca ctgggtgccc acggagggtc ccatgtgctg cagtgtcacc gcctccgagg      720
49 tgacagtatt gtccctgcgg tgcctctgca gctcagctct gtccacaggg ccacctccag      780
51 tttggagggg acacaatgca gcccgcagtc aaccatcct cgcagcatcc cagggacaaa      840
53 gaccccaactg caagaccgca cacagggtcg ggtcccgtc ccctaataatc tacagtgcct      900
55 ttgcatggcc ccttaatcaa tgcagttaat cagcatgcgc tcatgcaccg ctctggagct      960
57 gcaaaagccc tcgcagcgt gtcaccaaac accgcgcacc gccccggccc agcctgcagc      1020
59 acgcgctgca aacaggaaaag aaacaaaata ttgccaaaat gtaggcaaag gcattcggct      1080
61 gccttgacct ccgcggggcc gggccctgcc tgactcagct ccttactcag cgctcgcttc      1140
63 ctccctccgg ctgccaccgc cgcagcgcac accctgacaa agagtggccc ttaacgggct      1200
65 ctgaggtgca ccagcagtg cactcagcag tccaagggcc ggctggagg tttgcaccgc      1260
67 tacgtgctga cattagcatt gaacttgccc ctgggtagt ctgcaggccg ggcggggtag      1320
69 gtgtagagag tgcagcgcgc gttgcaccgc gtgccccttc ccctcccttg catcccagca      1380
71 ggctgcaccc cagcaccagg cccgtgcatg catgctcctg gtgttattgc agcctgggtg      1440
73 atgcatgcgt cttagtgggt cagcgtgtgt catgcatact ctttgggtgt tagcagctta      1500
75 gtgcatgcat acccctcggt gttattgctg ctctgtgcac gcacgctcat tgtatcactt      1560
77 catcccagtg catgcactca cactggagcg attgctgctc ggtgcacgca cactcattgt      1620

```

RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:28

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

```

79 atcacgtcag ctacgtggct gcacgcacac cgggtgttatt gctgctcggt gcgtgcatgc 1680
81 acatcagtgt cgctgcagct cagtgcattg accatcgcta tccctgcctc 1740
83 tcctgctggc gctccccggg aggtgacttc aaggggaccg caggaccacc tcgggggttg 1800
85 ggggagggct gcacacgcgg acccgcctcc ccctcccaa caaagcactg tggaatcaaa 1860
87 aaggggggag ggggggatgga ggggcgcgtc acaccccgcc cccacaccct cacctcgagg 1920
89 tgagcccccac gttctgcttc actctcccca tctccccccc ctccccaccc ccaattttgt 1980
91 atttatttat tttttaatta ttttgtcag cgatgggggc gggggggggg ggggcgcgcg 2040
93 ccaggcgggg cggggcgggg cgaggggcgg ggcggggcga ggcggagagg tgcggcggca 2100
95 gccaatcaga gcgcgcgcgt ccgaaagttt ccttttatgg cgaggcggcg gcggcggcgg 2160
97 ccctataaaa agcgaagcgc gcggcggggc ggagtcgctg cgttgccctc gccccgtgcc 2220
99 ccgctccgcg ccgcctcgcg ccgcccgcgc cggctctgac tgaccgcgtt actcccacag 2280
101 gtgagcgggc gggacggccc ttctcctccg ggctgtaatt agcgccttgg ttaatgacgg 2340
103 ctcgtttctt ttctgtggct gcgtgaaagc cttaaagggc tccgggaggg ccctttgtgc 2400
105 gggggggagc ggctcggggg gtgctgctgc gtgtgtgtgc gtggggagcg ccgcgtgcgg 2460
107 ccgcgcctgc ccggcggctg tgagcgcctg gggcgcggcg cggggctttg tgcctcgc 2520
109 gtgtgcgcga ggggagcgcg gccggggggc gtgcccgcg gtgcgggggg gctgcgaggg 2580
111 gaacaaaggc tgcgtgcggg gtgtgtgcgt gggggggtga gcagggggtg tgggcgcggc 2640
113 ggtcgggctg taaccccccc ctgcaccccc ctccccaggt tgcctgagcac ggcccggctt 2700
115 cgggtgcggg gctccgtgcg gggcgtggcg cggggctcgc cgtgccgggc ggggggtggc 2760
117 ggcaggtggg ggtgccgggc ggggcggggc cgcctcgggc cggggagggc tcgggggagg 2820
119 ggcgcggcgg ccccgagcgc ccggcggctg tcgaggcgcg gcgagccgca gccattgcct 2880
121 tttatggtaa tcgtgcgaga gggcgcaggg acttcctttg tcccaaactt ggcggagccg 2940
123 aaatctggga ggcgcgcgcg caccacctct agcgggcgcg ggcgaagcgg tgcggcgcg 3000
125 gcaggaagga aatgggcggg gagggccttc gtgcgtgcgc gcgccgcgct ccccttctcc 3060
127 atctccagcc tcggggctgc cgcaggggga cggctgcctt cggggggggc ggggcagggc 3120
129 ggggttcggc ttctggcgtg tgaccggcgg ggtttatata ttcccttctc tgttctcgcg 3180
131 cagcccccaa gcttaaggtg cacggcccac gtggggacta gtgccacc atg gcg ctc 3237
132 Met Ala Leu
133 1
135 ctg ctg tgc ttc gtg ctc ctg tgc gga gtc gcg gat ctc acc aga agt 3285
136 Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu Thr Arg Ser
137 5 10 15
139 ttg agt atc act act cct gaa cag atg att gaa aag gcc aaa ggg gaa 3333
140 Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala Lys Gly Glu
141 20 25 30 35
143 act gcc tat ttg cca tgc aga ttt acc ctg ggt cca gaa gac cag ggg 3381
144 Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu Asp Gln Gly
145 40 45 50
147 ccg ctg gac atc gag tgg ctg ctg tca cca gct gat aat cag aag gtg 3429
148 Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn Gln Lys Val
149 55 60 65
151 gat caa gtg att att tta tat tct gga gac aaa att tat gac gac tac 3477
152 Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr Asp Asp Tyr
153 70 75 80
155 tac caa gat ctg aaa gga cga gta cat ttt aca agt aat gat ctc aaa 3525
156 Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn Asp Leu Lys
157 85 90 95
159 tca ggt gat gca tca ata aat gta aca aat cta cag ttg tca gat att 3573
160 Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu Ser Asp Ile

```

RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:28

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

```

161 100          105          110          115
163 ggc aca tat cag tgc aaa gtg aaa aag gct cct ggt gtt gga aat aag      3621
164 Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val Gly Asn Lys
165          120          125          130
167 aag att cag ctg aca gtt ctt ctt aag cct tca ggt aca aga tgt tat      3669
168 Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr Arg Cys Tyr
169          135          140          145
171 gtt gat gga tca gaa gaa att gga aat gac ttt aaa cta aaa tgt gaa      3717
172 Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu Lys Cys Glu
173          150          155          160
175 cca aaa gaa ggt tca ctc cca tta cta tat gaa tgg cag aaa ttg tcc      3765
176 Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln Lys Leu Ser
177          165          170          175
179 aat tca cag aag ctg ccc acc ttg tgg tta gca gaa atg act tca cct      3813
180 Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met Thr Ser Pro
181 180          185          190          195
183 gtt ata tct gta aaa aat gcc tct act gaa tac tct ggg aca tac agc      3861
184 Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly Thr Tyr Ser
185          200          205          210
187 tgt acc gtg aaa aac aga gtg ggc tct gat cag tgc ctg ctt cgc ctg      3909
188 Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu Leu Arg Leu
189          215          220          225
191 gat gtg gtt cct cct tca aat aga gct gga aca att gca gga gct gtt      3957
192 Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala Gly Ala Val
193          230          235          240
195 ata gga gtt ttg ctt gct cta gtg ctc att ggt ctt atc atc ttt tgc      4005
196 Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile Ile Phe Cys
197          245          250          255
199 tgt cgt taa tctagataag taatgatcat aatcagccat atcacatctg      4054
200 Cys Arg
201 260
203 tagagggtttt acttgcttta aaaaacctcc cacacctccc cctgaacctg aaacataaaa      4114
205 tgaatgcaat tgttggtgtt aacttgctta ttgcagctta taatgggttac aaataaagca      4174
207 atagcatcac aaatttcaca aataaagcat ttttttcaact gcattctagt tgtggtttgt      4234
209 ccaaactcat caatgtatct tatcatgtct ggatccccgg gtaccgagct cg      4286
212 <210> SEQ ID NO: 2
213 <211> LENGTH: 261
214 <212> TYPE: PRT
C--> 215 <213> ORGANISM: Artificial/Unknown
W--> 217 <220> FEATURE:
W--> 217 <223> OTHER INFORMATION:
217 <400> SEQUENCE: 2
219 Met Ala Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu
220 1          5          10          15
223 Thr Arg Ser Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala
224          20          25          30
227 Lys Gly Glu Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu
228          35          40          45
231 Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn

```

Error

- See explanation p. 6

RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:28

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

```

232      50      55      60
235 Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr
236 65      70      75      80
239 Asp Asp Tyr Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn
240      85      90      95
243 Asp Leu Lys Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu
244      100     105     110
247 Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val
248      115     120     125
251 Gly Asn Lys Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr
252      130     135     140
255 Arg Cys Tyr Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu
256 145     150     155     160
259 Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln
260      165     170     175
263 Lys Leu Ser Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met
264      180     185     190
267 Thr Ser Pro Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly
268      195     200     205
271 Thr Tyr Ser Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu
272      210     215     220
275 Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala
276 225     230     235     240
279 Gly Ala Val Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile
280      245     250     255
283 Ile Phe Cys Cys Arg
284      260

```

287 <210> SEQ ID NO: 3

288 <211> LENGTH: 1098

289 <212> TYPE: DNA

C--> 290 <213> ORGANISM: Artificial/Unknown

292 <220> FEATURE:

293 <221> NAME/KEY: CDS

294 <222> LOCATION: (1)..(1098)

295 <223> OTHER INFORMATION: fulllength porcine CAR

298 <400> SEQUENCE: 3

```

299 atg gcg ctc ctg ctg tgc ttc gtg ctc ctg tgc gga gtc gcg gat ctc      48
300 Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu
301 1      5      10      15
303 acc aga agt ttg agt atc act act cct gaa cag atg att gaa aag gcc      96
304 Thr Arg Ser Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala
305      20      25      30
307 aaa ggg gaa act gcc tat ttg cca tgc aga ttt acc ctg ggt cca gaa      144
308 Lys Gly Glu Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu
309      35      40      45
311 gac cag ggg ccg ctg gac atc gag tgg ctg ctg tca cca gct gat aat      192
312 Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn
313      50      55      60
315 cag aag gtg gat caa gtg att att tta tat tct gga gac aaa att tat      240

```

RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:28

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 316 | Gln | Lys | Val | Asp | Gln | Val | Ile | Ile | Leu | Tyr | Ser | Gly | Asp | Lys | Ile | Tyr | |
| 317 | 65 | | | | | 70 | | | | | 75 | | | | 80 | | |
| 319 | gac | gac | tac | tac | caa | gat | ctg | aaa | gga | cga | gta | cat | ttt | aca | agt | aat | 288 |
| 320 | Asp | Asp | Tyr | Tyr | Gln | Asp | Leu | Lys | Gly | Arg | Val | His | Phe | Thr | Ser | Asn | |
| 321 | | | | | 85 | | | | | 90 | | | | | 95 | | |
| 323 | gat | ctc | aaa | tca | ggt | gat | gca | tca | ata | aat | gta | aca | aat | cta | cag | ttg | 336 |
| 324 | Asp | Leu | Lys | Ser | Gly | Asp | Ala | Ser | Ile | Asn | Val | Thr | Asn | Leu | Gln | Leu | |
| 325 | | | | | 100 | | | | | 105 | | | | | 110 | | |
| 327 | tca | gat | att | ggc | aca | tat | cag | tgc | aaa | gtg | aaa | aag | gct | cct | ggt | gtt | 384 |
| 328 | Ser | Asp | Ile | Gly | Thr | Tyr | Gln | Cys | Lys | Val | Lys | Lys | Ala | Pro | Gly | Val | |
| 329 | | | | | 115 | | | | | 120 | | | | | 125 | | |
| 331 | gga | aat | aag | aag | att | cag | ctg | aca | gtt | ctt | ctt | aag | cct | tca | ggt | aca | 432 |
| 332 | Gly | Asn | Lys | Lys | Ile | Gln | Leu | Thr | Val | Leu | Leu | Lys | Pro | Ser | Gly | Thr | |
| 333 | | 130 | | | | | 135 | | | | | 140 | | | | | |
| 335 | aga | tgt | tat | gtt | gat | gga | tca | gaa | gaa | att | gga | aat | gac | ttt | aaa | cta | 480 |
| 336 | Arg | Cys | Tyr | Val | Asp | Gly | Ser | Glu | Glu | Ile | Gly | Asn | Asp | Phe | Lys | Leu | |
| 337 | 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| 339 | aaa | tgt | gaa | cca | aaa | gaa | ggt | tca | ctc | cca | tta | cta | tat | gaa | tgg | cag | 528 |
| 340 | Lys | Cys | Glu | Pro | Lys | Glu | Gly | Ser | Leu | Pro | Leu | Leu | Tyr | Glu | Trp | Gln | |
| 341 | | | | | | 165 | | | | 170 | | | | | | 175 | |
| 343 | aaa | ttg | tcc | aat | tca | cag | aag | ctg | ccc | acc | ttg | tgg | tta | gca | gaa | atg | 576 |
| 344 | Lys | Leu | Ser | Asn | Ser | Gln | Lys | Leu | Pro | Thr | Leu | Trp | Leu | Ala | Glu | Met | |
| 345 | | | | | | 180 | | | | 185 | | | | | 190 | | |
| 347 | act | tca | cct | gtt | ata | tct | gta | aaa | aat | gcc | tct | act | gaa | tac | tct | ggg | 624 |
| 348 | Thr | Ser | Pro | Val | Ile | Ser | Val | Lys | Asn | Ala | Ser | Thr | Glu | Tyr | Ser | Gly | |
| 349 | | | | | | 195 | | | | 200 | | | | | 205 | | |
| 351 | aca | tac | agc | tgt | acc | gtg | aaa | aac | aga | gtg | ggc | tct | gat | cag | tgc | ctg | 672 |
| 352 | Thr | Tyr | Ser | Cys | Thr | Val | Lys | Asn | Arg | Val | Gly | Ser | Asp | Gln | Cys | Leu | |
| 353 | | 210 | | | | | 215 | | | | | 220 | | | | | |
| 355 | ctt | cgc | ctg | gat | gtg | gtt | cct | cct | tca | aat | aga | gct | gga | aca | att | gca | 720 |
| 356 | Leu | Arg | Leu | Asp | Val | Val | Pro | Pro | Ser | Asn | Arg | Ala | Gly | Thr | Ile | Ala | |
| 357 | 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| 359 | gga | gct | gtt | ata | gga | gtt | ttg | ctt | gct | cta | gtg | ctc | att | ggt | ctt | att | 768 |
| 360 | Gly | Ala | Val | Ile | Gly | Val | Leu | Leu | Ala | Leu | Val | Leu | Ile | Gly | Leu | Ile | |
| 361 | | | | | | 245 | | | | 250 | | | | | 255 | | |
| 363 | gtg | ttt | tgc | tgt | cat | aaa | aag | cgc | aga | gaa | gaa | aaa | tac | gaa | aaa | gaa | 816 |
| 364 | Val | Phe | Cys | Cys | His | Lys | Lys | Arg | Arg | Glu | Glu | Lys | Tyr | Glu | Lys | Glu | |
| 365 | | | | | | 260 | | | | 265 | | | | | 270 | | |
| 367 | gtg | cat | cat | gat | atc | agg | gaa | gac | gtg | cct | cct | ccg | aag | agc | aga | acg | 864 |
| 368 | Val | His | His | Asp | Ile | Arg | Glu | Asp | Val | Pro | Pro | Pro | Lys | Ser | Arg | Thr | |
| 369 | | | | | | 275 | | | | 280 | | | | | 285 | | |
| 371 | tcc | act | gcc | aga | agc | tac | ctc | ggc | agc | aac | cac | tcg | tcc | ctg | gga | tcc | 912 |
| 372 | Ser | Thr | Ala | Arg | Ser | Tyr | Leu | Gly | Ser | Asn | His | Ser | Ser | Leu | Gly | Ser | |
| 373 | | | | | | 290 | | | | 295 | | | 300 | | | | |
| 375 | atg | tct | cct | tcc | aac | atg | gaa | ggc | tat | tcc | aag | act | cag | tat | aac | cag | 960 |
| 376 | Met | Ser | Pro | Ser | Asn | Met | Glu | Gly | Tyr | Ser | Lys | Thr | Gln | Tyr | Asn | Gln | |
| 377 | 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| 379 | gta | cca | agc | gaa | gac | ttt | gaa | cgc | gct | cct | cag | agt | cca | act | ctc | ccg | 1008 |
| 380 | Val | Pro | Ser | Glu | Asp | Phe | Glu | Arg | Ala | Pro | Gln | Ser | Pro | Thr | Leu | Pro | |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/899,634B

DATE: 06/27/2002
TIME: 13:06:29

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt
Output Set: N:\CRF3\06272002\I899634B.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or "Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:2,4

VERIFICATION SUMMARY

DATE: 06/27/2002

PATENT APPLICATION: US/09/899,634B

TIME: 13:06:29

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt

Output Set: N:\CRF3\06272002\I899634B.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:217 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:217 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:290 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:395 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:397 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:397 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:494 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:509 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:524 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:539 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:554 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:569 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:584 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:599 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12